



2024

Bio-Medical Engineering

Courses & Apprenticeships



01562 745 858



training@avensysmedical.co.uk



www.avensysmedical.co.uk/training

ABOUT AVENSYS TRAINING

The Avensys Training Academy is an internationally recognised provider of Bio-Medical engineering qualifications and certified decontamination training courses. Located at the Black Country and Marches Institute of Technology (IoT), we deliver certified training to UK hospitals as well as on location training in Europe and beyond. Our team of trainers have unrivalled experience in the Sterilisation and Decontamination field, built over decades as hands on practitioners and educators.

Located in Dudley, the Institute of Technology has allowed us to expand our offering. Training now takes place within a 'Mock Hospital'. This simulated training environment contains theatre, ward, dental practice, diagnostic imaging and Central Sterile Services Department (CSSD) rooms providing the ideal environment for both hands on and theoretical learning.



In Partnership With



SHORT COURSES



WHY ENROL ON A SHORT COURSE?

A hospital with a Bio-Medical engineering department that is able to maintain and repair a wide range of medical devices will save significant amounts of money over outsourcing this work.

Whether a relative newcomer to Bio-Medical engineering or a seasoned practitioner, Avensys can offer EBME training that will not only improve your knowledge of the subject, but improve your career prospects as well as your ability to contribute to the health, safety and wellbeing of the patients in your hospital's care. With courses that vary from one to ten days and covering 100% of the medical devices found in hospital ward and community settings, Avensys short courses are an excellent investment in both staff and patient care.

Short Courses	Level
Introduction to Medical Engineering (Includes Level 3 EST)	3
Medical Equipment Technologies (5 modules below)	3
- Bio-Medical Equipment Electrical Safety	3
- Cardiovascular Equipment	3
- Medical Therapeutic Equipment	3
- Operating Theatre & Surgical Equipment	3
- Physiological Monitoring & Infusion Equipment	3

KEY BENEFITS

- QUALIFICATIONS NOT JUST TRAINING**
 Learners who complete an Avensys Bio-Medical engineering course will receive an industry recognised qualification, not just a certificate of completion.
- SIMULATED HOSPITAL ENVIRONMENT**
 Our Mock Hospital at the IoT includes simulated theatre, ward, dental surgery, diagnostic imaging and Central Sterile Services Department (CSSD) rooms and classrooms.
- THEORETICAL LEARNING**
 All courses have a classroom element where learners are taught the necessary theory before engaging in practical sessions, this includes operating principles, anatomy and physiology.
- PRACTICAL LEARNING**
 Each course includes practical sessions which take place in our 'Mock Hospital'. Learners will be taught how to repair, service and undertake Planned Preventative Maintenance (PPM).
- ONLINE TRAINING**
 Our online learning platform helps monitor and manage training requirements, automatically notifying staff when training is due whilst providing management with essential

Short Courses	Level
Anaesthetic & Ventilation Equipment	3
Medical Equipment Technologies (5 modules below)	3
- Bio-Medical Equipment Electrical Safety	3
- Cardiovascular Equipment	3
- Medical Therapeutic Equipment	3
- Operating Theatre & Surgical Equipment	3
- Physiological Monitoring & Infusion Equipment	3



See back of booklet or visit our website for more information about our short courses:
www.avensysmedical.co.uk/training

APPRENTICESHIPS

WHY EMPLOY/ BECOME AN APPENTICE?

Like many industries Bio-Medical engineering has an ageing workforce. Apprenticeships are a government funded initiative to develop and nurture talent as part of succession planning. Developing the skills of hospital staff involved in Bio-Medical engineering can result in improved efficiency, greater flexibility, fewer errors and lower costs.

Contrary to popular belief, there is no age limit on being an Apprentice and the formal recognition of skills is an excellent way in which to manage career progression and develop a specific skill set in medical engineering.

WHAT IS THE APPRENTICESHIP LEVY?

The Apprenticeship Levy is a government scheme committed to significantly increase spending on Apprenticeships in England.

Employers with an annual pay bill of more than £3 million must pay 0.5% of their pay bill to fund new Apprenticeships. The money generated can be drawn down to cover the costs of an Apprenticeship, meaning the Apprenticeship is delivered effectively at zero further cost

OUR DELIVERY PARTNERS

Avensys Apprenticeships are delivered in partnership with the Black Country and Marches Institute of Technology and Dudley College of Technology. This partnership ensures Apprentices get the best of both worlds; tuition from Avensys' medical experts combined with the experience of Dudley College of Technology in delivering Apprenticeship courses.

The Black Country and Marches is the only Institute of Technology in the UK which offers training for Sterile Services and Bio-Medical Engineering. Apprentices will further benefit from this strategic partnership as they will have access to a world class training facility.



KEY BENEFITS



MODULES TAILORED TO BIO-MEDICAL ENGINEERING

Avensys have selected the modules best fit for those undertaking an Apprenticeship in the Bio-Medical engineering sector.



DEDICATED ASSESSOR

Each Apprentice is assigned to an Assessor who will be your point of contact with Avensys. The Assessor will liaise with both the Apprentice and their line manager. Your Assessor is responsible for answering queries, handling complaints, managing training and assessing the progress of your Apprentices. Virtual Assessor meetings are held every 6-8 weeks.



APPRENTICESHIP LEVY FUNDING

Apprenticeships are one of the most cost effective ways to train your staff because they are funded by the Apprenticeship Levy.



£3,000 APPRENTICE INCENTIVE

Employers can apply for a £3,000 incentive payment from the government for each Apprentice they employ. This incentive is subject to change, please ask a member of staff to clarify the current incentive guidelines.



UNDERSTAND THE THEORY

Apprentices will be taught about operating principles, anatomy and physiology. This provides learners with a deeper understanding of the topic and enables them to see how their work directly affects patient health.



EMPLOYEE INVESTMENT IMPROVES RETENTION

Upon completion of this apprenticeship your employees will receive an industry recognised qualification. Investing in your workforce has been proven to improve staff retention. Avensys provide three Apprenticeship courses providing your staff with an excellent career pathway.

See back of booklet or visit our website for more information about our Apprenticeships courses:



avensysmedical.co.uk/apprenticeship

Healthcare Science Apprenticship Bio-Medical Engineering Modules

Level 2 12 months

Healthcare Engineering specialist Technician Apprenticship

Level 3 36 months

Healthcare Science Apprenticship bio-Medical Engineering Modules

Level 4 24 months

COURSES	Code	Duration*	Level	Cost†	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Introduction to Medical Engineering (INCLUDES L3 EST)	IME	3 days	3	£895		13 - 15		2 - 4	28 - 30			6 - 8			12 - 14	
Medical Equipment Technologies (5 modules below)	MET	10 days	3	£2,968	15 - 26			15 - 26			1 - 12		23 - 4			2 - 13
- Bio-Medical Equipment Electrical Safety (L3 EST)	EST	1 day	3	£320			18		9	25		1	17			
- Cardiovascular Equipment	CAR	3 days	3	£895				9 - 11				20 - 22			19	
- Medical Therapeutic Equipment	MTE	3 days	3	£895			26 - 28									
- Operating Theatre & Surgical Equipment	OTS	3 days	3	£895		27 - 29					30 - 1				5 - 7	
- Physiological Monitoring & Infusion Equipment	PMI	3 days	3	£895	30 - 1				21 - 23		23 - 25				5 - 7	
Anaesthetic & Ventilation Equipment	ANV	5 days	3	£1,510		19 - 23				10 - 14			9 - 13			
Dental Equipment	DEN	3 days	3	£895			19 - 21	30 - 2			16 - 18			22 - 24		
Electro-Mechanical Assistive Equipment	EMAE	1 day	3	£320			11			26			4		25	
Medical Equipment Networking	MEN	3 days	3	£895			12 - 14		14 - 16	18 - 20		13 - 15		8 - 10		
Medical Imaging Equipment	MIE	3 days	3	£895			26 - 28							29 - 31		
Trolleys, Beds & Operating Tables	TBOT	5 days	3	£1,510						3 - 7				14 - 18		

All courses include lunchtime meal

Healthcare Science Apprenticeship Bio-Medical Engineering Modules

Level 2 12 months

This year-long programme provides Apprentices with an introduction to working in Bio-Medical engineering. Apprentices will earn a Pearson BTEC Level 2 Diploma. This would be suitable for someone who works in a community hospital or equipment library.

Apprentices will have the opportunity to attend Dudley College of Technology webinars and attend the Black Country and Marches Institute of Technology in person for specialist medical equipment course/s. Training this way provides both the essential knowledge and skills to work in Bio-Medical engineering. Upon completing an End Point Assessment through Health Education England (HEE) and the National School of Healthcare Science (NSHCS) the Apprentice will have attained the standard of Healthcare Science Assistant.

Healthcare Engineering Specialist Technician Apprenticeship

Level 3 36 months

This three year long apprenticeship is designed to be undertaken by pre-existing or new employees working in the field of Bio-Medical engineering. This apprenticeship is most suitable for those who work in a Bio-Medical engineering department within an Acute Hospital.

Learners will receive in-depth knowledge of all aspects of Bio-Medical engineering and ensure competence in medical engineering technicians.

Apprentices will be capable of fault finding, safety testing, commissioning new medical devices, reporting, admin, maintenance and repairs.

Apprentices will get a Level 3 apprenticeship as a Healthcare Engineer Specialist Technician.

Healthcare Science Apprenticeship Bio-Medical Engineering Modules

Level 4 24 months

This two-year long programme provides Apprentices with structured work-based training in Bio-Medical engineering. Apprentices will earn a Pearson BTEC Level 4 Diploma as part of their apprenticeship, an industry recognised qualification.

Apprentices will perform tasks such as medical device maintenance/calibration (including electro-medical); managing technical data and writing technical reports. The apprentice will learn fundamental techniques to fault find, service and maintain a range of complex medical devices.

Upon completion of the apprenticeship, individuals will be eligible to join the Academy for HCS's (AHCS) accredited Associate Register at Level 4.

* Accommodation package including breakfast and dinner available for an additional cost

† Prices are exclusive of VAT

Dates and costs are subject to change, please refer to www.avensysmedical.co.uk/training for latest information.